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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/807,125	10/10/2001	Joerge Baumgart	22549845	4260	
23911	7590 03/31/2004		EXAM	EXAMINER	
	. & MORING LLP 'UAL PROPERTY GRO	IIP	SEVER, AI	NDREW T	
P.O. BOX 14			ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20044-4300		2851		
			DATE MAIL ED. 02/21/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(a)	-14
	Application No.	Applicant(s)	
	09/807,125	BAUMGART ET AL.	-
Office Action Summary	Examiner	Art Unit	
	Andrew T Sever	2851	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period working the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a within the statutory minimum of thir ill apply and will expire SIX (6) MON cause the application to become Af	reply be timely filed ty (30) days will be considered timely. THS from the mailing date of this comm BANDONED (35 U.S.C. § 133).	unication.
Status			
1) Responsive to communication(s) filed on 30 Se	eptember 2003.		
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.		
3) Since this application is in condition for allowar	ice except for formal mat	ters, prosecution as to the me	erits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 14-26 is/are pending in the application	1.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5)⊠ Claim(s) <u>20-26</u> is/are allowed.			
6)⊠ Claim(s) <u>14-19</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r .		
10)⊠ The drawing(s) filed on 10 October 2001 is/are:		bjected to by the Examiner.	
Applicant may not request that any objection to the		· ·	
Replacement drawing sheet(s) including the correcti			1.121(d).
11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			•
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ⊠ All b) □ Some * c) □ None of:			
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents		Application No	
3.⊠ Copies of the certified copies of the prior			ige
application from the International Bureau	·		-
* See the attached detailed Office action for a list		received.	
	·		
Attachment(s)			
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	2)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of I	nformal Patent Application (PTO-15	2)

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 9/30/2003 was filed after the

mailing date of the Notice of allowance on 9/23/2003. The submission is in compliance with the

provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being

considered by the examiner.

Allowable Subject Matter

2. Applicant is advised that the Notice of Allowance mailed 9/23/2003 is vacated. If the

issue fee has already been paid, applicant may request a refund or request that the fee be credited

to a deposit account. However, applicant may wait until the application is either found allowable

or held abandoned. If allowed, upon receipt of a new Notice of Allowance, applicant may

request that the previously submitted issue fee be applied. If abandoned, applicant may request

refund or credit to a specified Deposit Account.

3. Prosecution on the merits of this application is reopened on claims 14-19 are considered

unpatentable for the reasons indicated below: (see the following prior art rejections paragraphs

below.)

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2004).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 14-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamatake et al. (JPO 03-295408 provided by the applicant and as translated by the US patent office on March

Yamatake teaches in figure 1 a device, which also includes an inherent method (claims 1-19) for using it for detecting small periodic wave patterns in surfaces (see also page 8 which teaches that the device is used for detecting irregularities (patterns))

Yamatake teaches illuminating a surface using a primary beam of monochromatic coherent light (laser 1 produces a monochromatic beam of light);

Directing said primary beam onto the surface at a large angle of incidence relative to a normal to the surface of the work piece, and approximately at right angles to expected periodic wave patterns (Yamatake teaches on page 9 of the translation that the angle of incidence is between 1 and 10 degrees 80 to 89 relative to a normal to the surface which includes 83 plus or minus 2 degrees);

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Generating a diffraction image of the periodic wave patterns produced in secondary light returned by the surface (diffraction image is generated on screen 5); and

Evaluating an intensity and special distribution of neighboring intensity maxima in the diffraction image (Yamatake teaches in pages 9 and 10 of the translation that electronic means analyze the pattern produced by the secondary light); wherein,

For separate determination of the wave pattern of a ground surface, in which the wave pattern has finer, steeply indented stochastic ground structures superimposed on it, the ground structures are shadowed by providing an approximately grazing incidence of the primary light beam onto the work piece surface at a constant angle of incidence within an angular range of approximately $83\pm2^{\circ}$, whereby a diffraction image solely representing the wave patterns is produced because of an isolated illumination of the wave patterns thereby achieved, with primary light incident on their sides facing towards and away form the light and on respective wave crests. (see also pages 9 and 10 of the translation)

With regards to applicant's claim 15:

The secondary light is collected on a matt panel (screen 5)

With regards to applicant's claim 16:

Yamatake teaches in pages 11-14 how the images are evaluated which includes measuring an intensity distribution of the secondary light as a function of position over an image area of the

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diffraction image and evaluating the measurements with respect to occurrence of intensity maxima.

With regards to applicant's claim 17:

Yamatake teaches in page 14 subjecting the intensity distribution to an autocorrelation and evaluating the autocorrelation function obtained therefrom.

With regards to applicant's claim 18 and 19:

On page 13 of Yamatake, a method of determining the spacing of neighboring intensity maxima/minima and period of wave patterns is described.

Allowable Subject Matter

- 6. Claims 20-26 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Claims 20-26 are indicated as allowable for the reasons stated in the non-final rejection mailed on 5/13/2003. Namely the device of Yamatake et al. appears to be larger then the workpiece surface and therefore cannot be adapted to be placed in a define way on the workpiece surface as required by claim 20 and as shown for example in figure 1 of applicant's drawings.

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Conclusion

8. Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 9/30/2003 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 609(B)(2)(i). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew T Sever whose telephone number is 571-272-2128. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell Adams can be reached on 571-272-2112. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AS

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800